



ENTERED

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,849

DATE: 03/27/2002

TIME: 14:03:18

#2

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\03272002\J092849.raw

3 <110> APPLICANT: Colorado State University Research Foundation et al.  
4 Frisbie, David D.  
5 McIlwraith, Wayne A.  
7 <120> TITLE OF INVENTION: In vivo treatment of joint disease using interleukin-1  
receptor  
8 antagonists  
10 <130> FILE REFERENCE: 10606.0026.PCUS00 CSUA026  
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/092,849  
C--> 12 <141> CURRENT FILING DATE: 2002-03-07  
12 <150> PRIOR APPLICATION NUMBER: PCT/US00/40823  
13 <151> PRIOR FILING DATE: 2000-09-06  
15 <150> PRIOR APPLICATION NUMBER: US 60/152,707  
16 <151> PRIOR FILING DATE: 1999-09-07  
18 <160> NUMBER OF SEQ ID NOS: 6  
20 <170> SOFTWARE: PatentIn version 3.1  
22 <210> SEQ ID NO: 1  
23 <211> LENGTH: 32  
24 <212> TYPE: DNA  
25 <213> ORGANISM: Artificial Sequence  
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28 <223> OTHER INFORMATION: Synthetic  
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35 <211> LENGTH: 30  
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40 <223> OTHER INFORMATION: Synthetic  
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46 <210> SEQ ID NO: 3  
47 <211> LENGTH: 1614  
48 <212> TYPE: DNA  
49 <213> ORGANISM: Equus caballus  
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54 tttcttgctc tactcagaga cagcctgccca ccctttgggg aagagaccct gcaagatgca 120  
56 agccttcaga atctgggatg ttaaccagaa gaccttctac atgaggaata accaactagt 180  
58 tgctggatac ttgcaagaat caaataactaa attacaagag aagatagatg tgggtgcccatt 240  
60 tgagcctgat gctctattcc tgggactcca tgggaggaag ctgtgcctgg cctgtgtcaa 300  
62 gtctggtgat gagattaggt tccaattgga ggcagttaac atcactgacc tgagcaagaa 360  
64 caaggaggag aacaagcgtc tcaccttcat ccgctcaaac agtggcccca ccaccagctt 420  
66 cgagtctgcc gcctgccctg gctggttctt ctgcacggcg caggaggcag accggcccgt 480

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68 cagcctcacc aacaagccca aagagtcctt catggtcacc aagttctacc tccaggagga 540
70 ccagtagaac tgcccgtagc tccgcttccc ctattcccag catgtcgtatg catccagaga 600
72 ctgcctctcc accccagggg ctccctggggc tctgaggagc agccttggca ggggtgggcc 660
74 tcagaaggag gtacacgagc cctcgtaaca ggactctgtc tccagcctcc tcagctatcc 720
76 accctccatg ctgcttccac catggtcctt tctaaagtgc agctcaaacc acggccctac 780
78 ttaaagccct tcagtgtcgt ctgtaccttc aggataaaat ccggggccacc tggccagcct 840
80 ggatgccttc tgctctcgtc tgtcaagtgt tcgttgctcc tcaccccact gtccctgccc 900
82 gagatccctc agggcactca ctggccccc accaatgggt ctcatacctt gttttggaat 960
84 ctgatgtgt tctgtaggga agacttttag agtctgtggc aaaaatggaaa ataagaattt 1020
86 catgaaactt tctaaagcca gctttatcca atttgaaggga gagtccttta tttggagatt 1080
88 atttcctttt tgcaaaagggg tggggatcaa aatattcctg tgtttgtgaa gtgatagtga 1140
90 agggagggttc ccttggttagt gtccattctt gttttgttaa taccctaacc ggtaaaaatg 1200
92 aacagttagt gtactatgtt tgtcccttat tcttttcttt gtgaaacgtt tccgtgaagt 1260
94 ctggaccacac tgcccggggc tgagcaccac ctccattgca gacctttcac agctgccac 1320
96 agtgccttcc cctcccatca aaggttcccc tgctcccacg gcacagaaca aatgtggctc 1380
98 ctccaaggcc tttcctgac tcccgggagg aatgaatcgc tccttgacca ttttagcact 1440
100 tctgacgctc tgaaacttgt ttgaaagggt gttatgcctc tgtctgtctc ctgccccaaa 1500
102 ctgtgagctc ctggaagcag ggacatgact ggcattgtgtc tcagcttccc ccagggccaa 1560
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107 &lt;210&gt; SEQ ID NO: 4

108 &lt;211&gt; LENGTH: 531

109 &lt;212&gt; TYPE: DNA

110 &lt;213&gt; ORGANISM: Equus caballus

112 &lt;400&gt; SEQUENCE: 4

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115 tcagagacag cctgccaccc ttgggggaag agaccctgca agatgcaagc cttcagaatc 120
117 tgggatgtta accagaagac cttctacatg aggaataacc aactagttgc tggatacttg 180
119 caagaatcaa atactaaatt acaagagaag atagatgtgg tgcccattga gcctgatgct 240
121 ctattcctgg gactccatgg gaggaagctg tgccctggcct gtgtcaagtc tggatgatgag 300
123 attagggttc aattggaggc agttaacatc actgacctga gcaagaacaa ggaggagaac 360
125 aagcgttca ccttcatccg ctcaaacagt ggccccacca ccagcttcga gtctgccgcc 420
127 tgccctggct ggttcctctg cacggcgagc gaggcagacc ggcccgtcag cctcaccaac 480
129 aagcccaaag agtccctcat ggtcaccaag ttctacctcc aggaggacca g 531

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132 &lt;210&gt; SEQ ID NO: 5

133 &lt;211&gt; LENGTH: 177

134 &lt;212&gt; TYPE: PRT

135 &lt;213&gt; ORGANISM: Equus caballus

137 &lt;400&gt; SEQUENCE: 5

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140 1 5 10 15
143 Phe Leu Leu Tyr Ser Glu Thr Ala Cys His Pro Leu Gly Lys Arg Pro
144 20 25 30
147 Cys Lys Met Gln Ala Phe Arg Ile Trp Asp Val Asn Gln Lys Thr Phe
148 35 40 45
151 Tyr Met Arg Asn Asn Gln Leu Val Ala Gly Tyr Leu Gln Glu Ser Asn
152 50 55 60
155 Thr Lys Leu Gln Glu Lys Ile Asp Val Val Pro Ile Glu Pro Asp Ala
156 65 70 75 80
159 Leu Phe Leu Gly Leu His Gly Arg Lys Leu Cys Leu Ala Cys Val Lys

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160		85		90		95
163	Ser Gly Asp	Glu Ile Arg Phe Gln Leu Glu Ala Val Asn Ile Thr Asp				
164		100		105		110
167	Leu Ser Lys Asn Lys Glu Glu Asn Lys Arg Phe Thr Phe Ile Arg Ser					
168		115		120		125
171	Asn Ser Gly Pro Thr Thr Ser Phe Glu Ser Ala Ala Cys Pro Gly Trp					
172		130		135		140
175	Phe Leu Cys Thr Ala Gln Glu Ala Asp Arg Pro Val Ser Leu Thr Asn					
176	145		150		155	160
179	Lys Pro Lys Glu Ser Phe Met Val Thr Lys Phe Tyr Leu Gln Glu Asp					
180		165		170		175

183 Gln

187 &lt;210&gt; SEQ ID NO: 6

188 &lt;211&gt; LENGTH: 603

189 &lt;212&gt; TYPE: DNA

190 &lt;213&gt; ORGANISM: Artificial Sequence

192 &lt;220&gt; FEATURE:

193 &lt;223&gt; OTHER INFORMATION: PCR amplified

195 &lt;400&gt; SEQUENCE: 6

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198	cttttcttgc	tctactcaga	gacagcctgc	caccctttgg	ggaagagacc	ctgcaagatg	120
200	caagccttca	gaatctggga	tgtaaacag	aagaccttct	acatgaggaa	taaccaacta	180
202	gttgctggat	acttgcaaga	atcaaatact	aaattacaag	agaagataga	tgtggtgccc	240
204	attgagcctg	atgctctatt	cctgggactc	catgggagga	agctgtgcct	ggcctgtgtc	300
206	aagtctggtg	atgagattag	gttccaattg	gaggcagtta	acatcactga	cctgagcaag	360
208	aacaaggagg	agaacaagcg	cttcaccctc	atccgctcaa	acagtggccc	caccaccagc	420
210	ttcgagtctg	ccgcctgccc	tggtcggttc	ctctgcacgg	cgcaggaggc	agaccggccc	480
212	gtcagcctca	ccaacaagcc	caaagagtcc	ttcatgggtc	ccaagttcta	cctccaggag	540
214	gaccagtaga	actgcccgta	gctccgcttc	ccctattccc	agcatgtcga	tggatccaga	600
216	gac						603

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/092,849

DATE: 03/27/2002

TIME: 14:03:19

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\03272002\J092849.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date